Bill,

I sent you that information in my report on radiation work in August. I enclose three figures. The first figure has two sets of curves: counts/second and the integral. This curve says that a large fraction of beam is dumped in our detector before physics running. I have added a third thing to look (see Figure 3). This curve shows that the largest amount of radiation is dumped inside of the ring. This means that a vertex detector received an asymmetry in the direction towards the center of the ring. It is important to remove this extra component. That is a third test.

Remember these curves are integral over all exposures to the silicon detector before the beam is cogged and while we take data. Both sources contribute to silicon damage.

Howard

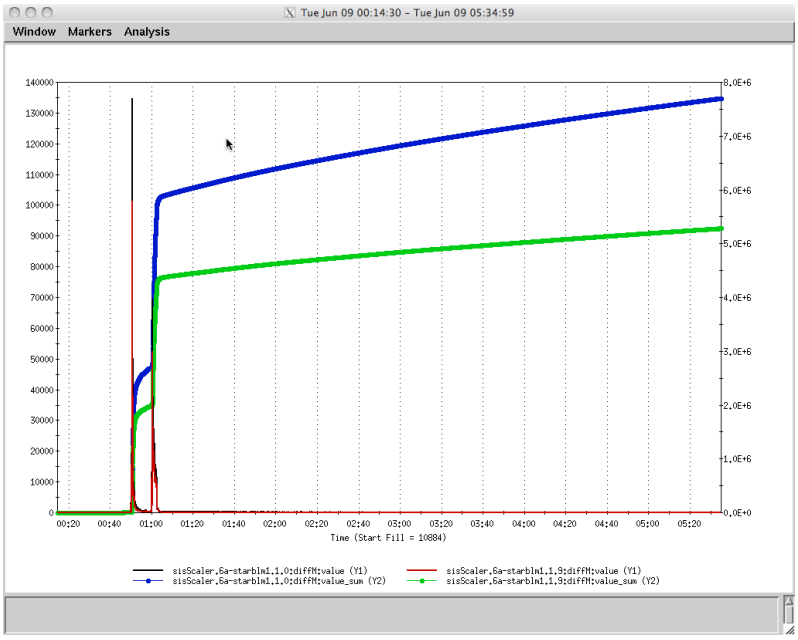

Figure 1: The integral of a typical fill for pp at 200 GeV. The two lower curves are the rate/second of the BLMs. The two upper curves are the

integral

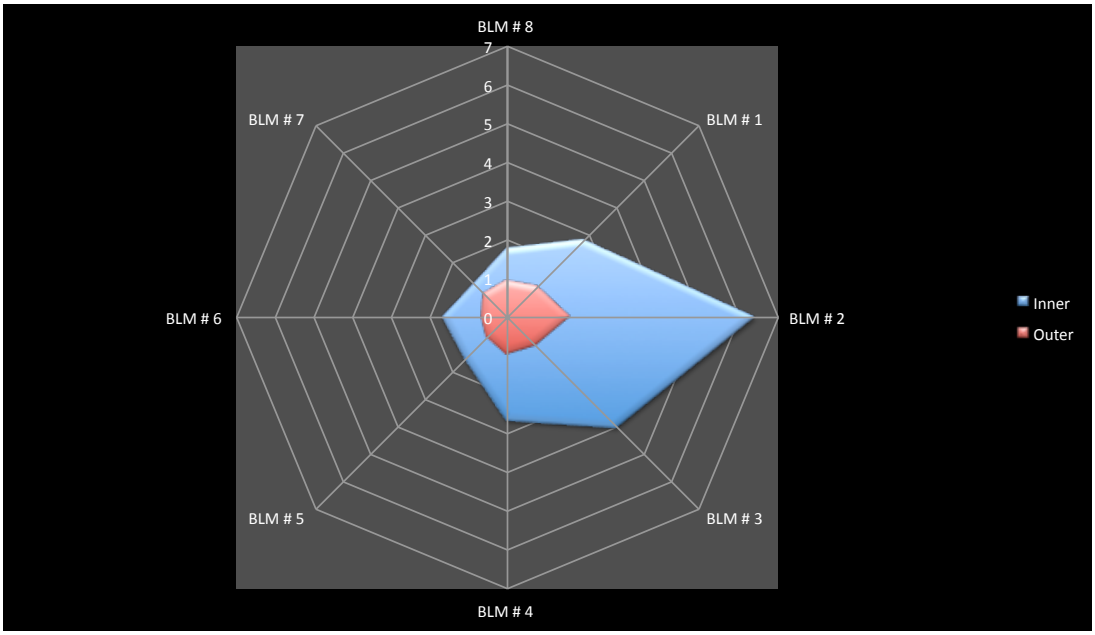

Figure 2: The asymmetry of the radiation field near the East BBC. The 3 O'clock position points north.

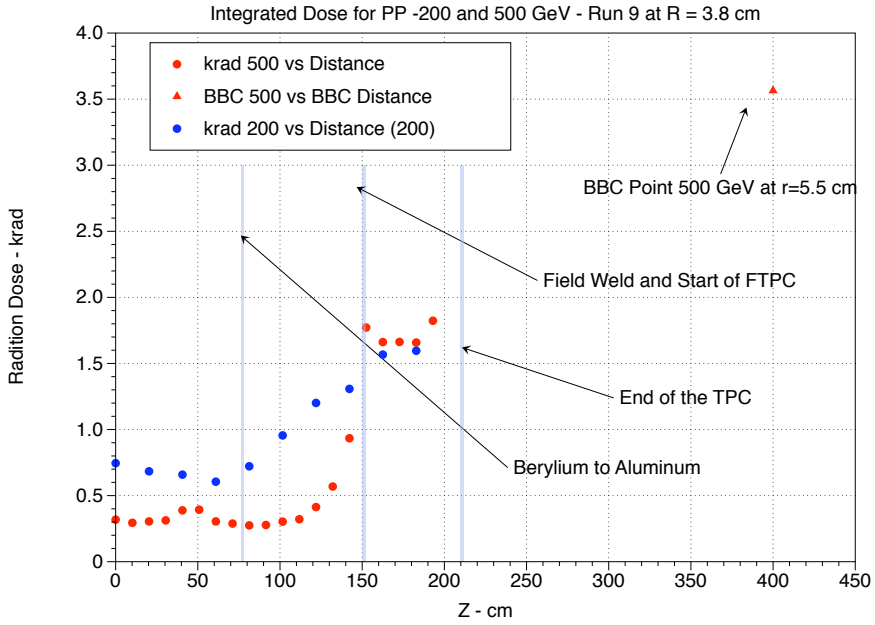

Figure 3: The z distribution of the TLD radiation near the beam pipe. PHENIX sees the same trend. This curve says that the largest radiation damage occurs away from z=0.